

- 18 -

**Claims:**

1. A packet switching control system for controlling a packet switched connection between a subscriber terminal  
5 (1) and an end terminal (5) identified by a connection endpoint identification in a communication network (4), comprising:  
storing means for storing a subscriber-specific screening list for a plurality of connection endpoint  
10 identifications; and  
control means (7) for performing a screening control of the packet switched connection on the basis of a screening parameter corresponding to the connection endpoint identification of the end terminal (5), wherein said  
15 control means (7) belongs to a different entity than said storing means.
2. A system according to claim 1, wherein said control means (7) belongs to any entity where a packet session is  
20 activated, while said storing means belongs to a fixed entity.
3. A system according to claim 1, wherein the control means (7) is arranged to download the subscriber-specific  
25 screening list, when the subscriber terminal (1) activates a packet data session.
4. A system according to claim 3, wherein the control means (7) is arranged to download the subscriber-specific  
30 screening list, when a packet is transmitted.
5. A system according to claim 3, wherein the control means (7) is arranged to load the subscriber-specific screening list from an external server or a location  
35 register (8) during an attach or location update procedure or a PDP context activation, and to store the loaded screening list in the storing means.

T06240" OF 40860

- 19 -

6. A system according to claim 5, wherein the subscriber-specific screening list comprises a tag indicating whether the list contains allowed or denied connection endpoint identifications, and wherein the control means (7) is  
5 arranged to let pass only those data packets transmitted from/to an allowed connection endpoint.
7. A system according to claim 3, wherein the subscriber-specific screening list is initialized as an empty list  
10 which is updated by the control means (7) each time the control means (7) receives a data packet with a connection endpoint identification not included in the subscriber-specific screening list.
- 15 8. A system according to claim 7, wherein the update of the subscriber-specific screening list is performed by an inquiry to a service control function which answers to the inquiry by transmitting a connection parameter for the corresponding connection endpoint identification.
- 20 9. A system according to any one of claims 3 to 8, wherein the subscriber-specific screening list is propagated to other network elements, if it is has been modified by a subscriber.
- 25 10. A system according to any one of the preceding claims, wherein said control means (7) is a network element and arranged to perform packet screening for downlink packets in accordance with the subscriber-specific screening list.
- 30 11. A system according to claim 10, wherein said network element (7) is arranged to monitor an uplink traffic transmitted from the subscriber terminal (1) via the packet switched connection and to command the subscriber terminal  
35 (1) to screen data packets transmitted to an end terminal (5) identified as a denied packet destination based on said subscriber-specific screening list.

09840410.042301

Sub A1

- 20 -

Sub A27  
12. A system according to claim 10 or 11, wherein the communication network (4) is a General Packet Radio Services (GPRS) network and wherein the network element is a Gateway GPRS Support Node (GGSN) (7).

5

13. A system according to claim 12, wherein the screening list comprises a charging information, and wherein the GGSN (7) is arranged to supply the charging information to a Serving GPRS Support Node (SGSN) (6) which performs a charging operation in accordance with the charging information.

10

Sub B3  
14. A system according to any one of the preceding claims, wherein the connection endpoint identification is one of a PDP address, an IP address, a subaddress space, a port number, a DNS hostname and protocol, a cipherkey or a combination of these.

15

15. A subscriber terminal (1) for controlling a packet switched connection to an end terminal (5) identified by a connection endpoint identification in a communication network (4), comprising:  
loading means for loading a subscriber-specific screening list; and  
control means (7) for performing a packet screening for uplink packets on the basis of a screening list parameter corresponding to the connection endpoint identification of the end terminal (5).

20

25

16. A subscriber terminal according to claim 15, wherein said subscriber terminal is a mobile station equipment.

30

17. A packet switching control system for controlling a packet switched connection between a subscriber terminal (1) and an end terminal (5) identified by a connection endpoint identification in a communication network (4), comprising:

35

- 21 -

storing means for storing a subscriber-specific screening list for a plurality of connection endpoint identifications, wherein a detection point information for an interrogation of an Intelligent Network (IN) service control function can be set selectively for a specific connection endpoint identification in the subscriber-specific screening list; and control means (7) for triggering an IN interrogation, when a data packet with a connection endpoint identification, for which a detection point information is set, is transmitted via the packet switched connection.

18. A system according to claim 17, wherein the IN interrogation is triggered only for a first data packet having a new connection endpoint identification marked with a detection point.

19. A system according to claim 17 or 18, wherein the control means (7) is commanded by the service control function, which has received the IN interrogation, so as to replace the corresponding detection point information by a subscriber-specific screening information, and so to accept a data packet or to reject the data packet in accordance with the subscriber-specific screening information.

20. A system according to any one of claims 19, wherein the service control function which has received the IN interrogation provides a more detailed subscriber-specific screening profile to the control means (7).

21. A packet switching control method for controlling a packet switched connection between a subscriber terminal (1) and an end terminal (5) identified by a connection endpoint identification in a communication network (4), comprising the steps of:  
providing a subscriber-specific screening list for a plurality of connection endpoint identifications; and

09404010  
Sub 94

- 22 -

performing a screening control of the packet switched connection in another entity on the basis of a screening parameter corresponding to the connection endpoint identification of the end terminal (5).

5

22. A method according to claim 21, wherein the subscriber-specific screening list is loaded from an external server or a location register (8) during an attach or location update procedure or a PDP context activation.

10

23. A method according to claim 21, wherein the subscriber-specific screening list is initialized as an empty list and updated each time a data packet with a connection endpoint identification not included in the subscriber-specific screening list is received.

15

24. A method according to any one of claims 21 to 23, further comprising the step of propagating the subscriber-specific screening list to other network elements, if it is has been modified by a subscriber.

20

25. A method according to any one of claims 21 to 24, wherein the screening control is performed in a network element for downlink packets and in the subscriber terminal for uplink packets.

25

26. A method according to any one of claims 21 to 24, wherein an uplink traffic transmitted from the subscriber terminal via the packet switched connection is monitored and the subscriber terminal is commanded to screen data packets transmitted to a packet destination identified as a denied packet destination based on said subscriber-specific screening list.

30

27. A method according to claim 18, wherein the screening list comprises a charging information.

35

0940410-042500

Sub A5

- 23 -

28. A packet switching control method for controlling a packet switched connection between a subscriber terminal (1) and an end terminal (5) identified by a connection endpoint identification in a communication network (4),
- 5 comprising the steps of:
- providing a subscriber-specific screening list for a plurality of connection endpoint identifications;
- selectively setting a detection point information for an interrogation of an Intelligent Network (IN) service
- 10 control function for a specific connection endpoint identification in the subscriber-specific screening list; and
- triggering an IN interrogation, when a data packet with a connection endpoint identification, for which a detection
- 15 point information is set, is transmitted via the packet switched connection.

T02240"0T40460